| <br>ndex | <br> | _ |
|----------|------|---|
|          |      |   |

| Application No.  | Applicant(s)     |  |
|------------------|------------------|--|
| 09/665,687       | YAMASUCHI ET AL. |  |
| Examiner         | Art Unit         |  |
| Brandon J Miller | 2683             |  |

| Rejected    | ı | (Through numeral)<br>Cancelled |
|-------------|---|--------------------------------|
| <br>Allowed | ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla          | aim      | Date         |          |   |                                     |  |              |              | Cla            | im        |  |              |          | D                  | ate      |          |          |          |                   | Cl                      | aim                     |          |              |              | C         | ate                 | )         |          |          |                |                 |          |          |
|--------------|----------|--------------|----------|---|-------------------------------------|--|--------------|--------------|----------------|-----------|--|--------------|----------|--------------------|----------|----------|----------|----------|-------------------|-------------------------|-------------------------|----------|--------------|--------------|-----------|---------------------|-----------|----------|----------|----------------|-----------------|----------|----------|
| l _ l        | ਯ        | 5            |          |   |                                     |  |              |              |                |           | _  |              | ਲ        |                    |          |          |          | - 1      |                   |                         |                         |          | l _          | <del>a</del> |           | ł                   | -         |          |          | .              |                 |          |          |
| Final        | Original | 4/22/05      |          |   |                                     |  |              |              |                | ١         | 100                                      | <u> </u>     | Original |                    |          |          |          | - 1      |                   |                         |                         |          | Final        | Original     |           |                     | 1         |          |          |                |                 |          |          |
| ΙŒ           | Ö        | 42           |          |   |                                     |  |              |              |                |           |  | -            | ō        |                    |          |          |          | - 1      |                   |                         |                         |          | Į iE         | Ö            |           |                     | ١         |          |          |                |                 |          |          |
|              |          | <u> </u>     | Н        |   | _                                   |  | _            |              | $\sqcup$       |           |  | -            |          | $\dashv$           | -        | -        | -        | -        | +                 | 4                       | - -                     | 4        | <u> </u>     |              |           |                     | 4         | _        |          |                | $\dashv$        | _        |          |
| 1            | 1        | =            | Ш        |   | <b> </b>                            | _  |              | _            |                |           | -  |              | 51       |                    |          | -        | -        | -+       | +                 | +                       |                         | 4        |              | 101          |           |                     | 4         | $\dashv$ | _        | _              | _               | _        |          |
| 2            | 2        | =            | Н        |   | _                                   | -  |              |              | H              |           | $\vdash$                                 | -            | 52<br>53 |                    | -        | -+       | 4        | -+       | -                 | +                       | +                       | 4        |              | 102<br>103   |           | _                   | +         | -        |          |                | $\dashv$        | _        | 괵        |
| 3            | 3        | =            | Н        |   | $\vdash$                            | H  |              | H            | $\vdash$       | $\dashv$  | -  | $\dashv$     |          |                    | -        | $\dashv$ | -        | -        | -                 | +                       | +-                      | -        | <u> </u>     | 103          |           |                     | +         | -        | $\dashv$ | $\vdash$       | $\dashv$        | $\dashv$ | $\dashv$ |
| 5            | 5        | =            | Н        | _ | $\vdash$                            |  |              | $\vdash$     |                | ᅱ         | $\vdash$                                 | $\dashv$     | 54<br>55 | $\vdash$           | -        | $\dashv$ | $\dashv$ | -        | +                 | +                       | +                       | 1        | <del> </del> | 105          | $\vdash$  |                     | +         | $\dashv$ | $\dashv$ |                | $\dashv$        | -        | 一        |
| 6            | 6        | =            | Н        |   | ┢                                   | _  | <del> </del> | $\vdash$     | Н              | $\dashv$  |  | $\dashv$     | 56       | $\vdash$           | $\dashv$ | $\dashv$ | $\dashv$ | -+       | ╅                 | ╁                       | +                       | ┪        | <u> </u>     | 106          | H         | $\dashv$            | $\dashv$  | $\dashv$ | $\dashv$ |                | -               | -        | ┥        |
| 7            | 7        | =            | Н        | _ | ┢                                   | $\vdash$                                     | _            | $\vdash$     | Н              | ᅥ         |  | $\dashv$     | 57       |                    | _        | $\dashv$ | $\dashv$ | -        | +                 | +                       | +-                      | ٦.       |              | 107          | $\vdash$  | $\dashv$            | +         | 一        | -        |                | $\dashv$        | _        | 一        |
| 8            | 8        | =            | Н        | _ | ┢                                   | -  |              |              |                | ᅥ         | -  | _            | 58       | H                  | $\dashv$ | _        | 7        | $\dashv$ | ╅                 | +                       | +                       | 7        |              | 108          |           |                     | 7         | $\neg$   | $\neg$   |                |                 |          | 一        |
| 9            | 9        | =            | М        | _ | _                                   |  |              |              | П              | $\dashv$  |  | $\neg$       | 59       | H                  | 寸        | $\dashv$ | 一        | _        | $\top$            | $\top$                  | <del> </del>            | 1        |              | 109          |           | $\top$              | 7         | $\neg$   |          |                |                 |          |          |
|              | 10       |              | П        |   | Г                                   |  |              |              | П              | ヿ         |  | 寸            | 60       |                    | 寸        | 十        | _        | 7        | 7                 | 1                       | 十                       | 1        |              | 110          |           | _                   | 1         | _        |          |                |                 |          | 一        |
|              | 31       | _            |          |   | Г                                   |  |              |              | П              | $\neg$    |  |              | 61       |                    |          | 一        | 寸        | T        | T                 | $\top$                  |                         | 1        |              | 111          |           |                     | 寸         | ヿ        |          |                | ヿ               |          | ヿ        |
| 10           | 12       | =            |          |   |                                     |  |              |              |                |           |  |              | 62       |                    |          | $\Box$   |          |          | $\Box$            | T                       | $\top$                  | ]        |              | 112          |           |                     |           |          |          |                |                 |          |          |
| 11           | 13       | Ξ            |          |   |                                     |  |              |              |                |           |  |              | 63       |                    |          |          |          |          |                   | I                       |                         | ]        |              | 113          |           |                     |           |          |          |                |                 |          |          |
| 12           | 14       | =            |          |   |                                     |  |              |              |                |           |  |              | 64       |                    |          |          |          | $\Box$   | $\prod$           | $oldsymbol{\mathbb{T}}$ | $oldsymbol{\mathbb{T}}$ | ]        |              | 114          |           |                     | $\Box$    |          |          |                |                 |          |          |
| 13           | 15       | =            |          |   |                                     |  |              |              |                |           |  |              | 65       |                    |          |          |          |          |                   | $\perp$                 |                         |          |              | 115          |           |                     |           |          |          |                |                 |          |          |
| 14           | 16       | =            | Ш        |   | L                                   | L.   |              |              |                |           |  |              | 66       |                    | $\Box$   | $\bot$   | $\bot$   | $\bot$   | $oldsymbol{\bot}$ |                         |                         | _        |              | 116          |           |                     | $\perp$   |          |          |                |                 |          |          |
|              | 17       | <u> </u>     | Ш        |   | _                                   |  |              |              |                |           |  |              | 67       | Ш                  | _        | _        | $\perp$  | ļ        |                   | ᆚ                       |                         | ╛        |              | 117          |           |                     | $\perp$   |          |          |                |                 |          |          |
|              | 18       |              | Ш        |   | _                                   |  | <u> </u>     | _            |                |           |  |              | 68       |                    |          |          |          |          |                   | $\perp$                 |                         | 4        |              | 118          |           |                     | $\perp$   | _        |          |                |                 |          |          |
|              | 19       | _            |          |   | <u> </u>                            |  | <u></u>      |              |                |           |  | _            | 69       |                    | _        | 4        | _        | 4        | _                 | 4                       |                         | 4        |              | 119          |           |                     | _         | _        | $\dashv$ |                | $\perp$         |          | $\Box$   |
|              | 20       | ļ            |          |   | _                                   | _  | ļ            | L.           |                | _         | <u> </u>                                 | _            | 70       |                    | _        | 4        | 4        | _        |                   | ┵                       |                         | 4        |              | 120          | Ш         |                     | 4         | _        | _        |                |                 |          | _        |
|              | 21       | _            |          |   | <u> </u>                            | <u> </u>                                     |              | <u> </u>     | $\vdash$       | $\dashv$  | ·  | _            | 71       |                    |          | _        | _        | _        | _                 | _                       | _                       | 4        | -            | 121          |           |                     | 4         |          |          |                | -1              | _        | _        |
|              | 22       | _            | Н        |   | <u> </u>                            | _  | <u> </u>     | <u> </u>     | Н              | $\dashv$  | .  -                                     | _            | 72       | $\sqcup$           | _        | 4        | 4        | _        | +                 | +                       |                         | -        |              | 122          |           | _                   | 4         |          |          |                |                 |          |          |
|              | 23       |              | Н        |   | <del> </del>                        | <u> </u>                                     |              | ⊢            | -              | ᅴ         | -  |              | 73       | $\vdash$           | $\dashv$ |          | -        | _        | +                 | +                       |                         | -        | -            | 123          | Н         |                     | 4         | -        | _        |                |                 |          |          |
|              | 24<br>25 | <del> </del> | Н        |   | -                                   |  | ├            | ├            |                | ᅴ         | \<br>-                                   |              | 74<br>75 | H                  | -        |          | -        | _        | +                 | +                       |                         | -        | <u> </u>     | 124<br>125   | $\vdash$  | -                   | +         | -        | -        |                |                 |          |          |
|              | 26       | -            | $\vdash$ |   | -                                   | -  | -            | ├            |                | $\dashv$  | -  |              | 76       | $\vdash$           | $\dashv$ |          |          | $\dashv$ | +                 | +                       | +                       | ┨        | <u> </u>     | 125          | $\square$ | $\vdash$            | $\dashv$  | -        |          |                | -               |          |          |
|              | 27       | ⊢            | Н        |   | -                                   | ┢  | $\vdash$     |              |                | $\dashv$  | $\vdash$                                 | $\dashv$     | 77       | $\vdash \vdash$    | $\dashv$ | +        | $\dashv$ | -+       | +                 | +                       | ┰                       | ┨        | -            | 127          | Н         | -                   | +         |          |          |                | $\dashv$        |          |          |
|              | 28       | $\vdash$     | Н        | _ | $\vdash$                            | ├-   | $\vdash$     | ┢            |                |           | $\vdash$                                 | $\dashv$     | 78       | $\vdash$           | $\dashv$ | $\dashv$ | $\dashv$ | +        | +                 | +                       |                         | ┨        | <u> </u>     | 128          |           |                     | +         |          |          |                |                 |          | ᅱ        |
| <del></del>  | 29       | _            | H        |   |                                     |  | $\vdash$     | H            |                |           | $\vdash$                                 | _            | 79       | H                  | -        | +        | -+       | _        | $\dashv$          | +                       | +                       | ┨        |              | 129          | Н         | $\dashv$            | $\pm$     | $\dashv$ | $\dashv$ |                | $\dashv$        |          | $\dashv$ |
|              | 30       | $\vdash$     | Н        |   |                                     |  | Н            | H            |                |           |  | $\dashv$     | 80       | $\vdash$           | $\dashv$ | $\dashv$ | $\dashv$ | _        |                   | +                       | ┪                       | ┪        |              | 130          | H         | +                   | +         | 一        | -        |                | H               |          | $\dashv$ |
|              | 31       | $\vdash$     | H        |   | f                                   |  | H            | t            |                | $\exists$ | <u>                                 </u> | _            | 81       | H                  | _        | +        | _        | _        | _                 | 十                       | +                       | 1        |              | 131          | Н         | $\dashv$            | +         | $\dashv$ | $\dashv$ |                | $\dashv$        |          | $\dashv$ |
|              | 32       | $\vdash$     | П        |   |                                     |  |              |              | П              | $\neg$    |  | 寸            | 82       |                    |          |          |          | T        | 1                 | ✝                       | 1                       | 1        | <b>—</b>     | 132          |           | -                   | 7         | _        | _        |                | _               |          | _        |
|              | 33       |              | П        |   |                                     | Г  |              | †            | П              | $\neg$    |  | $\exists$    | 83       |                    |          | 7        | $\dashv$ | 一        | $\top$            | $\dagger$               | 1                       | 1        |              | 133          | П         |                     | 7         |          |          |                |                 |          | $\neg$   |
|              | 34       |              |          |   |                                     |  |              |              |                |           |  |              | 84       |                    |          |          |          |          | $\top$            | 1                       |                         | 7        |              | 134          |           |                     | 7         |          |          |                |                 |          |          |
|              | 35       |              |          |   |                                     |  |              |              |                |           |  |              | 85       |                    |          |          |          |          | _                 | _1                      |                         | ]        |              | 135          |           |                     | _1        |          |          |                |                 |          |          |
|              | 36       | L            |          |   |                                     |  |              |              |                |           |  |              | 86       |                    |          |          | ∄        |          |                   | 1                       |                         |          |              | 136          |           |                     |           |          |          |                |                 |          |          |
|              | 37       |              |          |   |                                     |  |              |              |                |           |  |              | 87       |                    |          |          | $\Box$   |          |                   | floor                   | $\perp$                 |          |              | 137          |           |                     | $\Box$    |          |          |                |                 |          |          |
|              | 38       |              |          |   |                                     |  |              |              |                |           |  |              | 88       |                    |          |          |          |          |                   | $oxed{\Box}$            |                         | ]        |              | 138          |           |                     |           |          |          |                |                 |          |          |
|              | 39       |              | $\Box$   |   |                                     |  |              | $\Box$       |                |           |  |              | 89       | Ш                  |          |          | [        |          |                   | $\prod$                 | Ĺ                       | ]        |              | 139          |           |                     | $oxed{J}$ |          |          |                |                 |          |          |
|              | 40       | _            | Ш        |   | $oxed{\Box}$                        | $oxedsymbol{oxedsymbol{oxed}}$               | <u> </u>     | <u> </u>     | Ш              |           |  | [            | 90       | LJ                 |          | _[       | [        | _[       |                   | Т                       | $\bot$                  | 1        |              | 140          |           | $oxed{\Box}$        | I         |          |          |                |                 |          |          |
| <u> </u>     | 41       | $oxed{oxed}$ | Ш        |   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ |              | L            | Ш              |           | <u> </u>                                 | _            | 91       | $\sqcup$           | $\Box$   | _        |          |          |                   | 1                       | 1                       | 1        |              | 141          | Ш         |                     | _         |          |          |                | Ш               |          |          |
|              | 42       | <u> </u>     | Ш        |   | <u> </u>                            | _  | <u> </u>     | <u> </u>     | Ш              |           | ┕  | _            | 92       | Щ                  |          | _        |          | _        | _                 | 4                       | $\bot$                  | 4        |              | 142          | Ш         | $\sqcup \bot$       | _         |          |          |                | Ш               |          |          |
|              | 43       | <u> </u>     | Щ        |   | <u> </u>                            | <u> </u>                                     | _            |              | Ш              | Щ         | <u> </u>                                 | _            | 93       | $\sqcup$           |          |          | _        | _        | _                 | 4                       | $\bot$                  | 4        | <u></u>      | 143          | Щ         | $\sqcup$            | $\dashv$  |          |          | Щ              |                 | _        | _        |
|              | 44       | $\vdash$     | Ш        |   | $\vdash$                            | <u> </u>                                     | <u> </u>     | <del> </del> | Ш              | _         | ⊢  | _            | 94       | Ш                  | $\sqcup$ |          | 4        | _        | 1                 | 4                       | +                       | 4        |              | 144          | $\vdash$  | $\sqcup$            | 4         |          |          |                | Ш               |          |          |
|              | 45       | <del> </del> | Н        |   | ⊢                                   | ├-   | $\vdash$     |              | $\vdash$       |           | <u> </u>                                 | _            | 95       | $\left  - \right $ |          | $\dashv$ | -        | $\dashv$ | +                 | +                       | +                       | 4        |              | 145          |           | $\vdash \downarrow$ | 4         | _        |          |                | Н               |          |          |
| <u> </u>     | 46       | $\vdash$     | Н        |   | $\vdash$                            | $\vdash$                                     |              | -            | Н              | $\dashv$  | -  |              | 96       | $\vdash \vdash$    | ᆜ        | $\dashv$ | -+       |          |                   | +                       | +                       | 4        | <u> </u>     | 146          |           |                     | 4         | _        |          | Ш              | $\vdash \vdash$ | _        |          |
| <del> </del> | 47<br>48 | ├-           | Н        | _ | ╀                                   | $\vdash$                                     | -            | -            | $\vdash\vdash$ | $\dashv$  | -  | <del>-</del> | 97<br>98 | $\vdash\vdash$     |          | -+       | $\dashv$ | $\dashv$ | +                 | +                       | +                       | 4        |              | 147          | ┝         | $\vdash$            | $\dashv$  | $\dashv$ | _        | _              | Н               |          |          |
| <del> </del> | 49       | ⊢            | Н        | _ | $\vdash$                            | ╁  | -            | $\vdash$     | $\vdash\vdash$ | $\dashv$  | -  |              | 98       | $\vdash$           |          | +        | -+       | $\dashv$ | +                 | +                       | +                       | ┨        | -            | 148<br>149   | $\vdash$  | ┝╌┝                 | -+        | $\dashv$ | _        | -              | Н               | _        |          |
| <b></b>      | 50       | $\vdash$     | $\vdash$ |   | ╁                                   | $\vdash$                                     | -            | $\vdash$     | $\vdash$       | $\dashv$  | -  | $\dashv$     | 100      | Н                  | $\dashv$ |          |          | $\dashv$ | +                 | +                       | +                       | $\dashv$ |              | 150          | $\vdash$  | $\vdash \vdash$     | -+        |          |          | $\vdash\vdash$ | Н               |          | $\dashv$ |
| L            | 70       | Ц_           |          |   |                                     | <u></u>                                      |              | Ь            | لـــــــا      | لـــــا   |  | 1            | 100      | L                  |          | [        | 1        |          | L                 | 丄                       | ㅗ                       | ┙        | L            | 100          | ш         |                     |           |          |          |                |                 |          |          |